

11

determining the intensity values using at least the first topogram and the second topogram.

5. The method of claim 1, further comprising:

determining acquisition parameters for a further acquisition of the examination region using at least the first topogram.

6. The method of claim 5, wherein the acquisition parameters are intensity values for x-ray radiation for dose modulation for the further acquisition, and the method further includes

determining the intensity values using at least the first topogram.

7. The method of claim 1, further comprising:

applying a spiral acquisition with a dose smaller than 200 μ Sv during the spiral acquisition.

8. A non-transitory computer-readable storage medium including program code segments that, when executed, cause a computer to execute the method of claim.

9. A computed tomography system for establishing a topogram, the computed tomography system comprising:

an acquisition unit, including an x-ray source and an x-ray detector, designed for a spiral acquisition of an examination region;

a reconstruction unit, configured to reconstruct a spatial three-dimensional image of the examination region using the spiral acquisition;

an image processing unit, configured to establish a first topogram of the examination region by a parallel projection of the spatial three-dimensional image along a first projection direction, and compute an envelope of the examination region by segmenting the examination region in the spatial three-dimensional image; and

a determination unit, configured to determine scattering parameters based on the computed envelope of the segmented examination region.

12

10. The computed tomography system of claim 9, wherein the image processing unit is further configured to establish at least one second topogram of the examination region by a parallel projection of the spatial three-dimensional image along at least one second projection direction.

11. The computed tomography system of claim 10, further comprising:

a determination unit, configured to determine acquisition parameters for a further acquisition of the examination region using at least one of the first topogram and the second topogram.

12. The computed tomography system of claim 9, further comprising:

a determination unit, configured to determine acquisition parameters for a further acquisition of the examination region using at least the first topogram.

13. The computed tomography system of claim 9, wherein the acquisition unit further includes a second x-ray source and a second x-ray detector.

14. A computed tomography system for establishing a topogram, the computed tomography system comprising:

an acquisition unit, including an x-ray source and an x-ray detector, designed for a spiral acquisition of an examination region;

a reconstruction unit, configured to reconstruct a spatial three-dimensional image of the examination region using the spiral acquisition;

an image processing unit, configured to establish a first topogram of the examination region by a parallel projection of the image along a first projection direction; and

a computer, into which the program code segments included in the non-transitory computer-readable storage medium of claim 8 are loadable.

* * * * *